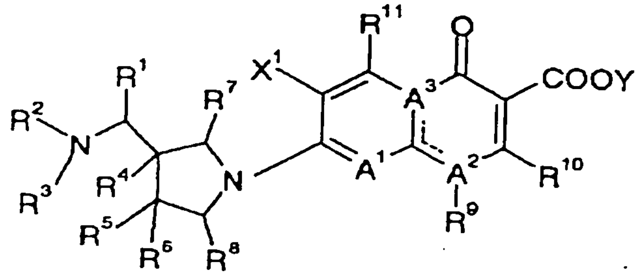
ABSTRACT

This invention provides a quinolone derivative having potent antibacterial activity against various bacteria including drug-resistant strains which is a compound of the following formula wherein R^1 is an optionally substituted aromatic group, a salt of the same or a hydrate of both.



In the formula, R^2, R^3: hydrogen atom, an alkyl group; R^4, R^5, R^6: hydrogen atom, hydroxyl group, a halogen atom, carbamoyl group, an alkyl group, an alkoxyl group, an alkylthio group; R^7, R^8: hydrogen atom, an alkyl group; R^9: an alkyl group, an alkenyl group, a halogenoalkyl group, a cyclic alkyl group, an aryl group, a heteroaryl group, an alkoxyl group having from 1 to 6 carbon atoms, an alkylamino group; R^{10}: hydrogen atom, an alkylthio group; R^{11}: hydrogen atom, amino group, hydroxyl group, thiol group, a halogenomethyl group, an alkyl group, an alkenyl group, an alkynyl group, an alkoxyl group; X^1: halogen atom, a hydrogen atom; A^1: nitrogen atom, C-X^2; X^2: hydrogen atom, amino group, a halogen atom, cyano group, an halogenomethyl group, a halogenomethoxyl group, an alkyl group, an alkenyl group, an alkynyl

group, an alkoxyl group; A^2, A^3: $>C=C(-A^1=)-N(-R^9)-$, $>N-C(-A^1=)=C(-R^9)-$; R^{10} and R^9 or R^9 and X^2 may be integrated to form a ring structure; and Y: hydrogen atom, ester forming group.